# Rampage III Extreme

## Drive Your System to The Limit!

- LGA1366 socket for Intel® Core™i7 Processor Extreme Edition / Core™i7 Processor
- Intel® X58/ICH10R
- ROG Connect – Plug and overclock. Tweak it the hardcore way!
- Extreme Engine Digi+ – Powerful Combination of Analog and Digital Design Elements
- ROG Extreme OC Kit - Thoughtful touches that make overclocking a great pastime
- USB BIOS Flashback - Refresh the BIOS can never be that easy

The Republic of Gamers consists only the best of the best. We offer the best hardware engineering, the fastest performance, the most innovating ideas, and we welcome the best gamers to join in.

In the Republic of Gamers, mercy rules are only for the weak, and bragging rights means everything. We believe in making statements and we excel in competitions. If your character matches our trait, then join the elite club, make your presence felt, in the Republic of Gamers.

### *CPU Feature*

LGA1366 Intel® Core™ i7 Ready

This motherboard supports the latest Intel® Core™ i7 processors in LGA1366 package with integrated memory controller to support 3-channel (6 DIMMs) DDR3 memory. Supports Intel® QuickPath Interconnect (QPI) with a system bus of up to 6.4 GT/s and a max bandwidth of up to 25.6 GB/s. Intel® Core™ i7 processor is one of the most powerful and energy efficient CPUs in the world.

## *Chipset Features*

Intel® X58 Chipset

The Intel® X58 Express Chipset is one of the most powerful chipset designed to support the Intel® Core™ i7 Processors with LGA1366 package and Intel® next generation system interconnect interface, Intel® QuickPath Interconnect (QPI), providing improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. It also supports up to 36 PCI Express 2.0 lanes providing better graphics performance.

PCIe 2.0

**Double Speed; Double Bandwidth**

This motherboard supports the latest PCIe 2.0 devices for double speed and bandwidth which enhances system performance.

## *Multi-GPU Technology*

SLI/CrossFireX On-Demand

**Why choose when you can have both?**

SLI or CrossFireX? Fret no longer because with the ROG Rampage III Extreme, you'll be able to run both multi-GPU setups. The board features SLI/CrossFire on Demand technology, supporting up to four graphics cards in a 3-Way SLI or CrossFireX configuration. Whichever path you take, you can be assured of jaw-dropping graphics at a level previously unseen.

## *Memory Feature*

Tri-Channel, DDR3 2200(O.C.) MHz

The motherboard supports DDR3 memory that features data transfer rates of 2200(O.C.) / 2133(O.C.) / 2000(O.C.) / 1800(O.C.) / 1600(O.C.) / 1333 / 1066 MHz to meet the higher bandwidth requirements of the latest operation system, 3D graphics, multimedia, and Internet applications. The Triple-channel DDR3 architecture double the bandwidth of your system memory to boost system performance.

## *Future Transfer Technology*

True USB 3.0 Support

**10X faster data rates!**

Experience ultra-fast data transfers at 4.8Gbps with USB 3.0—the latest connectivity standard. Built to connect easily with next generation components and peripherals, USB 3.0 transfers data 10X faster and is also backward compatible with USB 2.0 components.

True SATA 6Gb/s Support

**Experience the future of storage!**
Supporting next-generation Serial ATA (SATA) storage interface, this motherboard delivers up to 6.0Gb/s data transfer rates. Additionally, get enhanced scalability, faster data retrieval, double the bandwidth of current bus systems.

## *ROG Exclusive Features*

Extreme Engine Digi+

**Powerful combination of analog and digital design elements**
Extreme Engine Digi+ equipped with high performance digital VRM design can easily achieve the ultimate performance with adjustable CPU PWM frequency. It expedites heat dissipation and achieves better electric conduction keeping critical components reliable. Now you'll be able to push your spanking new Intel CPU to the limit, hitting benchmark scores that others only dream of. Extreme Engine Digi+ balances the need for voltage and the desire for rock solid performance to bring the ultimate user experience.

USB BIOS Flashback

**Refresh the BIOS can never be that easy**
USB BIOS Flashback must be the most convenient way to flash BIOS ever! It allows overclockers to try their BIOS with the simplist way one can imagine. No need to enter the BIOS or the operating system, just plug the thumb drive into the ROG Connect port & push the ROG Connect button for 2 seconds, BIOS would be automatically flashed under standby power. It's no doubt that USB BIOS Flashback gives overclockers the ultimate convenience!

RC Bluetooth

**Smashes through all the barriers of conventional overclocking !**
Still overclocking in old-fashioned way? Let RC Bluetooth bring you the whole new idea of how to do! Just simply push the button from the Back I/O on the RC Bluetooth card, overclockers can real-time monitor the desktop PC system status & tweak its parameters - such as voltages and frequency on the fly. When users want to use ordinary bluetooth functions, just simply push the button once again & enjoy all the wireless convenience brought from RC Bluetooth.

RC Bluetooth & USB BIOS flashback Video

ROG Connect

**Plug and Overclock - Tweak it the hardcore way!**

Monitor the status of your desktop PC and tweak its parameters in real-time via a notebook—just like a race car engineer—with ROG Connect. ROG Connect links your main system to a notebook through a USB cable, allowing you to view real-time POST code and hardware status readouts on your notebook, as well as make on-the-fly parameter adjustments at a purely hardware level. ROG Connect even allows you to flash your BIOS from the notebook, which means that you can OC your system to the max without any fear of permanently bricking the motherboard due to a corrupted BIOS.

ProbeIt

**Get all hands-on with hardware-based overclocking**

ProbeIt takes the guesswork out of locating the motherboard´s measurement points, identifying them clearly in the form of 8 sets of detection points so you´ll know exactly where to get quick yet accurate readings using a multitester.

iROG

**Intelligent multiple control at hand**

The iROG is a special IC which enables several ROG highlitghted functions that gives users full disposal of the motherboard at any stage! This design allows advanced user control and management to be processed purely at a hardware level. iROG greatly increases fun during overclocking for PC enthusiasts and it offers system maintainence and management with more control and efficiency.

CPU Level Up

**A Simple click for instant upgrade**

Ever wish that you could have a more expansive CPU? Upgrade your CPU at no additional cost with ROG's CPU Level Up! Simply pick the processor you wanted to OC to, and the motherboard will do the rest! See the new CPU speed and enjoy that performance instantly. Overclocking is never as easy as this.

BIOS FlashBack

**Two BIOS ROM. Two BIOS settings. Twice the overclocking flexibility.**

Overclocker's prayer to have BIOS flexibility is answered! With the new BIOS Flashback, PC enthusiasts can overclock with even more confidence. BIOS Flashback gives overclockers the ability to save two versions of the BIOS simultaneously. Very much like the "SaveGame" function, one BIOS can be used for the overclocking adventure, while the other BIOS is to be stored with any previous version. BIOS Flashback brings the ultimate convenience to overclockers!

Extreme Tweaker

**One stop performance tuning shop**

Extreme Tweakers is the one stop shop to fine-tune your system to optimal performance. No matter if you´re looking for frequency adjustment, over-voltage options, or memory timing settings, they´re all here!

Voltiminder LED

**Friendly reminder on Voltage Settings**

In the pursuit of extreme performance, overvoltage adjustment is critical but risky. Acting as the "red zone" of a tachometer, the Voltiminder LED displays the voltage status for CPU, NB, SB, and Memory in a intuitive color-coded fashion. The voltiminder LED allows quick voltage monitoring for overclockers.

Loadline Calibration

**Optimal power boost for extreme CPU overclocking!**

Maintaining ample voltage support for the CPU is critical during overclocking. The Loadline Calibration ensures stable and optimal CPU voltage under heavy loading. It helps overclockers enjoy the motherboard's ultimate OC capabilities and benchmark scores.

COP EX

**Maximum OC with confidence with burn proof protection to chipsets and GPU!**

The COP EX allows overclockers to increase chipset voltages without the worries of overheating. It can also be used to monitor and save an overheating GPU. The COP EX allows more freedom and less constraint for maximum performance achievement.

## *Sound with Clarity*

8-channel Audio

**Enjoy high-end sound system on your PC!**

The onboard 8-channel HD audio (High Definition Audio, previously codenamed Azalia) CODEC enables high-quality 192KHz/24-bit audio output, jack-sensing feature, retasking functions and multi-streaming technology.

Noise Filter

**Eliminate background noise while recording**

This feature detects repetitive and stationary noises like computer fans, air conditioners, and other background noises then eliminates it in the incoming audio stream while recording.

## *ROG EZ DIY Features*

Q-Fan Plus

**Optimized quietness and cooling for more devices!**

The Q-Fan function automatically detects temperature and adjusts fan speed accordingly to achieve quiet and efficient cooling. With Q-Fan Plus, special temperature sensor cable is provided to detect temperature on any device. When used with a optional fans, you may activate Q-Fan function on up to 3 additional devices of your choice!

ASUS Q-Connector

**Make connections quick and accurate**

The Q-Connector allows you to connect or disconnect chassis front panel cables in one easy step with one complete module. This unique adapter eliminates the trouble of plugging in one cable at a time, making connection quick and accurate.

Onboard Switch

**No more shorting pins or moving jumpers**

With an easy press during overclock, this exclusive onboard switch allows gamer to effortlessly fine-tune the performance without having to short the pins or moving jumpers!

## *Software Bundled*

3DMark® Vantage Advanced Edition

**The gamers´ benchmark**

3DMarkVantage is the new industry standard PC gaming performance benchmark from Futuremark, newly designed for Windows Vista and DirectX10. It includes two new graphics tests, two new CPU tests, several new feature tests, and support for the latest hardware. 3DMark® Vantage is based on a completely new rendering engine, developed specifically to take full advantage of DirectX10, the new graphics API from Microsoft.

Kaspersky® Anti-Virus

**The best protection from viruses and spyware**

Kaspersky® Anti-Virus Personal offers premium antivirus protection for individual users and home offices. It is based on advanced antivirus technologies. The product incorporates the Kaspersky® Anti-Virus engine, which is renowned for malicious program detection rates that are among the industry´s highest.

# Specifications

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| CPU | Intel® Socket 1366 Core™ i7 Processor Extreme Edition/Core™ i7 Processor<br>Support Intel® Turbo Boost Technology<br>Refer to www.asus.com for Intel CPU support list |
| Chipset | Intel® X58 / ICH10R |
| System Bus | Up to 6400 MT/s with QuickPath Interconnection |
| Memory | 6 x DIMM, Max. 24 GB, DDR3<br>2200(O.C.)/2133(O.C.)/2000(O.C.)/1800(O.C.)/1600/1333/1066 Non-ECC,Un-buffered Memory<br>Triple channel memory architecture<br>Supports Intel® Extreme Memory Profile (XMP)<br>*Hyper DIMM support is subject to the physical characteristics of individual CPUs.<br>*Refer to www.asus.com or this user manual for the Memory QVL (Qualified Vendors Lidts). |
| Expansion Slots | 4 x PCIe 2.0 x16 , support x16; x16/x16; x16/x8/x8 and x8/x8/x8/x8 configurations<br>1 x PCIe x4<br>1 x PCI 2.2 |
| Multi-GPU Support | Support NVIDIA 3-Way SLI™ / ATI CrossFireX™ Technology<br>4 PCIe x16 slots ready for 4 single PCB graphic cards |
| Storage | **Intel ICH10R controller**<br>6 xSATA 3.0 Gb/s ports<br>Intel Matrix Storage Technology Support RAID 0,1,5,10<br>**JMicron® JMB363 PATA and SATA controller**<br>1 xExternal SATA 3.0 Gb/s port (SATA On-the-Go)<br>1 xSATA 3.0 Gb/s port<br>**Marvell® 9128 PCIe SATA 6Gb/s controller**<br>2 xSATA 6.0 Gb/s ports |
| LAN | Gigabit Intel® LAN |
| Audio | 8-Channel High Definition Audio CODEC<br>- Blu-ray audio layer Content Protection<br>- Supports Jack-Detection, Multi-streaming, Front Panel Jack-Retasking<br>- Supports 1 Optical S/PDIF out port at back I/O |
| IEEE 1394 | 2 x 1394a port(s) (1 port at back I/O, 1 port onboard) |
| USB | NEC® USB 3.0 controller<br>- 2 x USB 3.0/2.0 ports (at back panel)<br>Intel® ICH10R Southbridge<br>- 9 x USB 2.0/1.1 ports (2 ports at midboard; 6 ports at back panel, 1 reserved for ROG |

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| | Connect) |
| Overclocking Features | ROG Connect<br>RC Bluetooth<br>**ROG Extreme Engine Digi+**<br>- 8-phase CPU power<br>- 3-phase QPI/DRAM power<br>- 3-phase NB power<br>- 3-phase Memory power<br>- ML Caps on CPU, Memory and QPI respectively<br>ProbeIt<br>iROG<br>Extreme Tweaker<br>BIOS Flashback with onboard switch button<br>USB BIOS Flashback<br>Loadline Calibration<br>**ROG Extreme OC kit**<br>LN2 Mode<br>PCIe x16 Lane Switch<br>Q_Reset<br>Double Power Supply with dual 8-pin (CPU) and dual 4-pin (VGA) molex power connectors<br>**Intelligent overclocking tools:**<br>- ASUS AI Booster Utility<br>- O.C Profile<br>**Overclocking Protection:**<br>- COP EX (Component Overheat Protection - EX)<br>- Voltiminder LED<br>- ASUS C.P.R.(CPU Parameter Recall) |
| Special Features | CPU Level Up<br>MemOK!<br>Onboard Switches: Power / Reset / Clr CMOS (at rear)<br>ASUS MyLogo3<br>ASUS Fan Xpert<br>ASUS EZ Flash 2<br>ASUS CrashFree BIOS 3<br>Q-Fan Plus<br>ROG BIOS Wallpaper<br>ASUS Q-Connector<br>ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)<br>ASUS Q-Slot<br>ASUS Q-DIMM |
| Back Panel I/O Ports | 1 x PS/2 Keyboard port (purple)<br>1 x Clr CMOS switch<br>1 x Optical S/PDIF out port<br>1 x IEEE 1394a connector<br>1 x External SATA port<br>1 x LAN (RJ45) port<br>1 x ROG Connect On/Off switch<br>1 x RC Bluetooth switch<br>2 x USB 3.0/2.0 ports (Blue)<br>7 x USB 2.0/1.1 ports (1 port also for ROG Connect)<br>8-channel Audio I/O |

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| Internal I/O Connectors | 1 x USB 2.0 connector supports additional 2 USB 2.0 ports<br>9 x SATA connectors: 2 x SATA 6G connectors (Red); 7 x standard SATA connectors (6 in Grey, 1 in Black)<br>1 x QPI Loadline calibration switch jumper (QPI_LL_SW)<br>8 x Fan connectors: 1 x CPU / 1 x PWR / 3 x Chassis / 3 x Optional<br>1 x Connector for optional fan-thermal module<br>8 x ProbeIt Measurement Points<br>3 x Thermal sensor connectors<br>1 x IEEE1394a connector<br>1 x SPDIF_Out Connector<br>1 x 24-pin ATX Power connector<br>2 x 8-pin ATX 12V Power connectors<br>1 x En/Dis-able Clr CMOS header<br>1 x LN2 Mode Header<br>1 x START (Power On) button<br>1 x RESET button<br>2 x EZ Plug connectors (4-pin Molex Power connectors)<br>1 x OC Station header<br>1 x RC Bluetooth header<br>1 x Go Button<br>1 x BIOS Switch button<br>1 x ROG light connector<br>1 x CD Audio in<br>1 x Audio front panel<br>1 x System panel connector |
| BIOS | 16 Mb Flash ROM AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI2.0a Multi-Language BIOS |
| Manageability | WOL by PME,WOR by PME,PXE |
| Accessories | 1 x ROG Connect cable<br>1 x ProbeIt cable set<br>1 x 3-Way SLI Bridge<br>1 x SLI Cable<br>1 x CrossFire Cable<br>1 x 2 in 1 ASUS Q-Connector Kit<br>3 x 2-in-1 SATA signal cables<br>1 x 2-in-1 SATA 6G cables<br>1 x 2-port USB2.0 + ESATA module<br>1 x I/O Shield<br>1 x Thermal Sensor Cable Pack<br>1 x Cable Ties Pack<br>1 x ROG theme label<br>1 x 12-in-1 ROG Cable Label<br>1 x Optional Fan-Thermal Module<br>1 x RC Bluetooth card<br><br>**Bluetooth Module Accessory Card**<br>Bluetooth V2.0/V2.1+EDR<br>RC Bluetooth On/Off Switch |
| Support Disc | Drivers<br>ASUS PC Probe II<br>ASUS AI Suite |

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| | ASUS Update<br>Kaspersky® Anti-Virus<br>Futuremark® 3DMark® Vantage Advanced Edition<br>ASUS TurboV EVO Utility |
| Form Factor | ATX Form Factor<br>12 inch x 10.6 inch ( 30.5 cm x 26.9 cm ) |